

ABSTRACT OF DISCLOSURE

An electrical connector is constructed with at least one pin configured to provide different resistance values as the pin is engaged with a socket. When the connector is fully engaged with the socket the resistance of the connector is at a zero or minimal value.

- 5 When the pin first contacts the socket, the pin includes a high series resistance minimizing the sudden inrush of current to an electrical device, and minimizing any arcing between the pin and the socket. As the pin engages the socket this series resistance decreases allowing the electronic device to utilize its full designed current with only minimal contact resistance between the pin and the socket.